

Weekly Highlights (March 26 through April 1, 2012)

Task Order **Ex. 4 - CBI** Analytical and Laboratory Support

TDF **Ex. 4 - CBI** – Provide Sample Log-in and Other Ancillary Tasks in Support for the Dimock Residential Groundwater Site (Fast Turnaround Time Analyses), assigned 2/15/12, due 9/30/12 – ESAT was assigned the task of performing sample log-in, sample processing support, and ancillary tasks (e.g., glassware washing, reagent prep, etc.) to support the analytical tasks for this Superfund site. In addition, ESAT may be required to provide sample preparation support. ESAT will be notified if this latter support is needed. No activities relative to this TDF were conducted this week.

On 4/26/12, a service representative from Full Spectrum performed a series of diagnostics on the Agilent GC/MS located in Room H207 in an attempt to resolve the tuning issues and moisture problems encountered by ESAT Chemist **Ex. 4 - CBI** the week prior on the instrument. It was suspected that the issues were attributed to a corrupted tuning file which was reloaded. A successful tune and calibration were achieved on the instrument; however, the following day, **Ex. 4 - CBI** observed the same problems encountered earlier. **Ex. 4 - CBI** contacted EPA WAM Hoang Nguyen and a series of additional exercises were performed including the cleaning of the source. The instrument remains inoperable to date. Although no impact on the timeliness of data deliverables relative to air analyses and this instrument were noted during this time, if the instrument cannot be successfully repaired by early next week, a delay in the timeliness of data deliverables may be experienced. ESAT will notify EPA Project Officer Colleen Walling as soon as possible in the event that this possibility is realized.

The Entech component of the Agilent GC/MS located in Room H202 requires a replacement part for one of the traps. A request for this part has been submitted to WAM Sue Warner. The instrument is currently inoperable. See comments above the for the ramifications of the timeliness of data deliverables relative to air analyses.

The heater exhaust vent was replaced on Glassware Drying Oven II located in Room G203 week-ending March 25, 2010. Following this service, several unsuccessful overnight attempts were made to fire glassware using this unit. ESAT Chemist **Ex. 4 - CBI** observed that the oven was not reaching the specified 820 °F temperature; therefore, the 8-hour timer was not being initiated. During the process of performing several troubleshooting exercises this week with EPA WAM Joe Slayton, smoke was observed emanating from the top part of the oven where the electrical components are located. The oven was turned off and Security and Facilities were promptly notified of the situation. Upon examination of the electrical housing, it was determined that some wires became loose and subsequently began to overheat and burn. Replacement parts have been ordered by Facilities and they will be installed upon arrival. No impact on the timeliness of glassware washing is noted at this time.

New temperature indication sticks were ordered for use with the Glassware Drying ovens; however, it appears as though the new temperature sticks do not seem to be working as the old ones did. ESAT Chemist **Ex. 4 - CBI** has notified EPA WAM Joe Slayton of this issue and some alternative temperature indicating options are being investigated.

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| Task Order 0041 | | | | | | | | |
| Task 1 - Analytical and Laboratory Support - Site Specific | | | | | | | | |
| WO# | TDF | Site / Request # | Samples / Matrix | Assigned | Due | Submitted | Accepted | Status |
| Non-responsive | | | | | | | | |
| Preliminary report, Final report | | | | | | | | |

Task Orders 0036 & 0041

Analytical and Laboratory Support – Non-Site Specific

| Task | Description | Activity | |
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| 2 | Instrument Maintenance | See Weekly Highlights above for comments relative to the Agilent GC/MS instruments located in Rooms H202 and H207. All additional instruments were fully functional. | |
| 3 | Sample Custody | New Requests | No new requests were accepted for ESAT this week. |
| | | Canister Deliveries | <div>Non-responsive</div> |
| | | ESAT Sample Receipt | |
| | | EPA Sample Receipt | |
| | | Report Consolidation | |
| 4 | Glassware Cleaning and Lab Cleanliness | Both glassware washing units and Oven I were fully functional. See weekly highlights above for comments relative to Oven II. | |
| 5 | Reagents and Supplies | The weekly chemical inventory was completed 3/30/12, and the report was submitted to the PO. | |
| 6 | Lab Safety | None | |

March 26 through April 1, 2012

Task Orders Ex. 4 - CBI

Analytical and Laboratory Support – Non-Site Specific

| Task | Description | Activity |
|------------|--|--|
| Ex. 4 - CB | Review SOPs and Guidance Documents | ESAT is reviewing SOP R3QA051-011812, Sample Receipt, Log-In, Chain of Custody, and Disposal Procedures. |
| Ex. 4 - CB | New Capabilities/Method Development | <p>TO 0036 / TDF 03061, TO-15 Pilot Study – Draft/Verbal Technical Direction, Assigned 3/17/11, Various Interim Due Dates (Final Report Due 6/30/11) – As a result of the TO-15 Pilot Study Conference Call held 3/14/11, ESAT was assigned to complete the tasks listed below, which have been completed:</p> <ul style="list-style-type: none">• Prepare a set of test bottles (1 under vacuum and 1 without vacuum) and a micro vacuum gauge with one connector for field samplers to utilize / test sample collection procedures for the Air Pilot Study by the end of the week. Sample containers shall be shipped in a shipping case.• Field Sampler will test on Friday and provide feedback / results of testing bottles.• Check with Entech to determine how existing sampling line would connect to the bottles for field sampling.• Prepare canisters (1 per location / sample station) and sample bottles (2 per station location / sample station). In addition, include a return shipping label/UPS air bill to be sent to the field samplers for sampling the first full week of April (4/4/11 thru 4/8/11) for the April sampling. Two stations were selected at the air pilot study: WSINFA and WSCARBA. <p>The analyses of air samples have been completed for the Summa canisters and amber bottles, received from the Non-responsive Her DAS# R33677. A report containing a review and comparison of the results obtained from the was submitted 7/13/11. The report was returned to ESAT and we are currently awaiting a feedback form from the sampler. The return of the micro-vacuum gauge is also currently pending.</p> |
| Ex. 4 - CB | Quality Assurance Compliance and Documentation | No documents were received by ESAT for login this week. |